

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

20350

7590

02/10/2004

TOWNSEND AND TOWNSEND AND CREW, LLP TWO EMBARCADERO CENTER EIGHTH FLOOR SAN FRANCISCO, CA 94111-3834 EXAMINER LE, HOANGANH T

ART UNIT

PAPER NUMBER

2821

DATE MAILED: 02/10/2004

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/057,824	01/25/2002	Thomas Schwengler	020366-080800US	4208

TITLE OF INVENTION: OPTICAL - RF MIXED ANTENNA

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	05/10/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

 Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing n applications filed on r after Dec. 12, 1980 may require payment f maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

C mplete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner f r Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or Fax

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

TOWNSEND AND TOWNSEND AND CREW, LLP TWO EMBARCADERO CENTER **EIGHTH FLOOR** SAN FRANCISCO, CA 94111-3834

02/10/2004

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

ansimiled to the Col 10, on the date maidaled orion.	
	(Depositor's name
	(Signature
	(Date

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/057,824	01/25/2002	Thomas Schwengler	020366-080800US	4208

TITLE OF INVENTION: OPTICAL - RF MIXED ANTENNA

7590

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	05/10/2004
EXAM	INER	ART UNIT	CLASS-SUBCLASS		
LE, HOANGANH T 28		2821	343-702000	_	
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). □ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. □ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer			For printing on the patent front page names of up to 3 registered patent gents OR, alternatively, (2) the name firm (having as a member a registered gent) and the names of up to 2 registromeys or agents. If no name is list will be printed.	attorneys or 1	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or cat	regories (will not be printed on the patent);	individual	Corporation or other private group entity	y 🖸 governmen	
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):				
☐ Issue Fee	☐ A check in the ame	ount of the fee(s)	is enclosed.		
☐ Publication Fee	☐ Payment by credit	card. Form PTO-	2038 is attached.		
☐ Advance Order - # of Copies	☐ The Director is he Deposit Account Nur	On The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).			
Director for Patents is requested to apply the Issue Fe	ee and Publication Fee (if any) or to re-apply	any previously p	aid issue fee to the application identified ab	ove.	
(Authorized Signature)	(Date)				
NOTE; The Issue Fee and Publication Fee (if recother than the applicant; a registered attorney or interest as shown by the records of the United State	agent; or the assignee or other party in				
This collection of information is required by 37 C obtain or retain a benefit by the public which is application. Confidentiality is governed by 35 U.S. estimated to take 12 minutes to complete, includin completed application form to the USPTO. Time case. Any comments on the amount of time youngestions for reducing this burden, should be separent and Trademark Office, U.S. Departme 22313-1450. DO NOT SEND FEES OR COMISEND TO: Commissioner for Patents, Alexandria,	to file (and by the USPTO to process) an C. 122 and 37 CFR 1.14. This collection is g gathering, preparing, and submitting the will vary depending upon the individual ou require to complete this form and/or ent to the Chief Information Officer, U.S. nt of Commerce, Alexandria, Virginia PLETED FORMS TO THIS ADDRESS.	•			
Under the Paperwork Reduction Act of 1995, a					



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/057,824 01/25/2002		Thomas Schwengler	020366-080800US	4208
20350	7590 02/10/2004		EXAM	IINER
TOWNSEND	AND TOWNSEND AN	D CREW, LLP	LE, HOAT	NGANH T
TWO EMBARO	CADERO CENTER			
EIGHTH FLOC)R		ART UNIT	PAPER NUMBER
SAN FRANCIS	CO, CA 94111-3834		2821	
			DATE MAILED: 02/10/200	4

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 16 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 16 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

			Shar	
	Applicati n No.	Applicant(s)		
Notice of Allowability	10/057,824	SCHWENGLER		
Notice of Allowability	Examiner	Art Unit		
	HoangAnh T Le	2821		
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to and MPEP 1308.	olication. If not include will be mailed in due	ed course. THIS	
2. X The allowed claim(s) is/are <u>1-15 and 24-33</u> .				
3. X The drawings filed on 25 January 2002 are accepted by the	e Examiner.			
 Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 	der 35 U.S.C. § 119(a)-(d) or (f).			
 Certified copies of the priority documents have 	been received.			
Certified copies of the priority documents have	been received in Application No	·		
Copies of the certified copies of the priority doc	cuments have been received in this i	national stage applica	tion from the	
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority ur reference was included in the first sentence of the specifica (a) The translation of the foreign language provisional a 6. Acknowledgment is made of a claim for domestic priority ur in the first sentence of the specification or in an Application	ition or in an Application Data Sheet pplication has been received. nder 35 U.S.C. §§ 120 and/or 121 si	. 37 CFR 1.78.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of the control of the contro	this application. THIS THREE-MON	ITH PERIOD IS NOT	EXTENDABLE.	
 A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 			OTICE OF	
 8. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No 	on's Patent Drawing Review (PTO-	,		
(b) ☐ including changes required by the proposed drawing of (c) ☐ including changes required by the attached Examiner's				
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			back) of	
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR TI 	sit of BIOLOGICAL MATERIAL n HE DEPOSIT OF BIOLOGICAL MA	nust be submitted. N FERIAL.	Note the	
Attachment(s)				
1 Notice of References Cited (PTO-892)	5 Notice of Informal Par	tent Application (PTO	-152)	
2☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6∐ Interview Summary (F	PTO-413), Paper No.	<u> </u>	
3 Information Disclosure Statements (PTO-1449 or PTO/SB/08) Paper No), 7☐ Examiner's Amendme	7☐ Examiner's Amendment/Comment		
4 Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's Statemen 9 Other .	t of Reasons for Allow	/ance	

Application/Control Number: 10/057,824 Page 2

Art Unit: 2821

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-15, and 24-33 are allowed.

2. The following is an examiner's statement of reasons for allowance: .the prior art fails to show a second reflecting device having a surface for reflecting the optical signals ,the surface including a receiver for receiving the reflected electromagnetic waves wherein the electromagnetic waves are received using the surface that reflects the optical signals.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HoangAnh T Le whose telephone number is (571) 272-1823. The examiner can normally be reached on 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-Moznophia 0956.